

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/565,626
Source: IFWP
Date Processed by STIC: 7/12/06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/565,626

DATE: 07/12/2006
TIME: 10:06:56

Input Set : A:\seq list.txt
Output Set: N:\CRF4\07122006\J565626.raw

3 <110> APPLICANT: INSERM
 5 <120> TITLE OF INVENTION: IL-11 muteins
 7 <130> FILE REFERENCE: 960-47
 9 <140> CURRENT APPLICATION NUMBER: 10/565,626
 10 <141> CURRENT FILING DATE: 2006-01-24
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP04/009165
 13 <151> PRIOR FILING DATE: 2004-07-29
 15 <150> PRIOR APPLICATION NUMBER: US 60/490,525
 16 <151> PRIOR FILING DATE: 2003-07-29
 18 <160> NUMBER OF SEQ ID NOS: 90
 20 <170> SOFTWARE: PatentIn version 3.3
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 199
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 29 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
 30 1 5 10 15
 33 Asp Thr Ala Val Ala Pro Gly Pro Pro Pro Gly Pro Pro Arg Val Ser
 34 20 25 30
 37 Pro Asp Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser
 38 35 40 45
 41 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Leu Arg Asp Lys Phe
 42 50 55 60
 45 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
 46 65 70 75 80
 49 Ser Ala Gly Ala Leu Gly Ala Leu Gln Leu Pro Gly Val Leu Thr Arg
 50 85 90 95
 53 Leu Arg Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg
 54 100 105 110
 57 Arg Ala Gly Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr
 58 115 120 125
 61 Leu Gln Ala Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
 62 130 135 140
 65 Ser Arg Leu Ala Leu Pro Gln Pro Pro Pro Asp Pro Pro Ala Pro Pro
 66 145 150 155 160
 69 Leu Ala Pro Pro Ser Ser Ala Trp Gly Gly Ile Arg Ala Ala His Ala
 70 165 170 175
 73 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
 74 180 185 190
 77 Leu Leu Leu Lys Thr Arg Leu
 78 195
 81 <210> SEQ ID NO: 2

R6

RAW SEQUENCE LISTING
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Input Set : A:\seq list.txt
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82 <211> LENGTH: 199
83 <212> TYPE: PRT
84 <213> ORGANISM: Macaca fascicularis
86 <400> SEQUENCE: 2
88 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
89 1 5 10 15
92 Asp Thr Ala Val Ala Pro Gly Pro Pro Pro Gly Ser Pro Arg Ala Ser
93 20 25 30
96 Pro Asp Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser
97 35 40 45
100 Leu Leu Glu Asp Thr Arg Gln Leu Thr Ile Gln Leu Lys Asp Lys Phe
101 50 55 60
104 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
105 65 70 75 80
108 Ser Ala Gly Ala Leu Gly Ala Leu Gln Leu Pro Ser Val Leu Thr Arg
109 85 90 95
112 Leu Arg Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg
113 100 105 110
116 Arg Ala Met Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr
117 115 120 125
120 Leu Gln Thr Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
121 130 135 140
124 Ser Arg Leu Ala Leu Pro Gln Leu Pro Pro Asp Pro Pro Ala Pro Pro
125 145 150 155 160
128 Leu Ala Pro Pro Ser Ser Thr Trp Gly Gly Ile Arg Ala Ala His Ala
129 165 170 175
132 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
133 180 185 190
136 Leu Leu Leu Lys Thr Arg Leu
137 195
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 199
142 <212> TYPE: PRT
143 <213> ORGANISM: Mus musculus
145 <400> SEQUENCE: 3
147 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
148 1 5 10 15
151 Asp Arg Val Val Ala Pro Gly Pro Pro Ala Gly Ser Pro Arg Val Ser
152 20 25 30
155 Ser Asp Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser
156 35 40 45
159 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe
160 50 55 60
163 Pro Ala Asp Gly Asp His Ser Leu Asp Ser Leu Pro Thr Leu Ala Met
164 65 70 75 80
167 Ser Ala Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg
168 85 90 95
171 Leu Arg Val Asp Leu Met Ser Tyr Leu Arg His Val Gln Trp Leu Arg
172 100 105 110

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Input Set : A:\seq list.txt
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175 Arg Ala Gly Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala
176 115 120 125
179 Leu Gln Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
180 130 135 140
183 Ser Arg Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Val Ile Pro
184 145 150 155 160
187 Leu Gly Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala
188 165 170 175
191 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
192 180 185 190
195 Leu Leu Leu Lys Thr Arg Leu
196 195
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 199
201 <212> TYPE: PRT
202 <213> ORGANISM: Rattus norvegicus
205 <400> SEQUENCE: 4
207 Met Asn Cys Val Cys Arg Leu Val Leu Val Val Leu Ser Leu Trp Pro
208 1 5 10 15
211 Asp Arg Val Val Ala Pro Gly Pro Pro Ala Gly Ser Pro Arg Val Ser
212 20 25 30
215 Ser Asp Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser
216 35 40 45
219 Leu Leu Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe
220 50 55 60
223 Pro Ala Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met
224 65 70 75 80
227 Ser Ala Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg
228 85 90 95
231 Leu Arg Val Asp Leu Met Ser Tyr Phe Arg His Val Gln Trp Leu Arg
232 100 105 110
235 Arg Ala Ala Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala
236 115 120 125
239 Leu Gln Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met
240 130 135 140
243 Ser Arg Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Ala Val Pro
244 145 150 155 160
247 Leu Gly Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala
248 165 170 175
251 Ile Leu Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu
252 180 185 190
255 Leu Leu Leu Lys Thr Arg Leu
256 195
259 <210> SEQ ID NO: 5
260 <211> LENGTH: 165
261 <212> TYPE: PRT
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 5
266 Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser Leu Leu

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267 1      5      10      15
270 Ala Asp Thr Arg Gln Leu Ala Ala Gln Leu Arg Asp Lys Phe Pro Ala
271      20      25      30
274 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
275      35      40      45
278 Gly Ala Leu Gly Ala Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
279      50      55      60
282 Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
283 65      70      75      80
286 Gly Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr Leu Gln
287      85      90      95
290 Ala Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
291      100     105     110
294 Leu Ala Leu Pro Gln Pro Pro Asp Pro Pro Ala Pro Pro Leu Ala
295      115     120     125
298 Pro Pro Ser Ser Ala Trp Gly Gly Ile Arg Ala Ala His Ala Ile Leu
299      130     135     140
302 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
303 145     150     155     160
306 Leu Lys Thr Arg Leu
307      165
310 <210> SEQ ID NO: 6
311 <211> LENGTH: 165
312 <212> TYPE: PRT
313 <213> ORGANISM: Macaca fascicularis
315 <400> SEQUENCE: 6
317 Pro Arg Ala Glu Leu Asp Ser Thr Val Leu Leu Thr Arg Ser Leu Leu
318 1      5      10      15
321 Glu Asp Thr Arg Gln Leu Thr Ile Gln Leu Lys Asp Lys Phe Pro Ala
322      20      25      30
325 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
326      35      40      45
329 Gly Ala Leu Gly Ala Leu Gln Leu Pro Ser Val Leu Thr Arg Leu Arg
330      50      55      60
333 Ala Asp Leu Leu Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
334 65      70      75      80
337 Met Gly Ser Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Thr Leu Gln
338      85      90      95
341 Thr Arg Leu Asp Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
342      100     105     110
345 Leu Ala Leu Pro Gln Leu Pro Pro Asp Pro Pro Ala Pro Pro Leu Ala
346      115     120     125
349 Pro Pro Ser Ser Thr Trp Gly Gly Ile Arg Ala Ala His Ala Ile Leu
350      130     135     140
353 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
354 145     150     155     160
357 Leu Lys Thr Arg Leu
358      165
361 <210> SEQ ID NO: 7

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/565,626

DATE: 07/12/2006
TIME: 10:06:56

Input Set : A:\seq list.txt
Output Set: N:\CRF4\07122006\J565626.raw

362 <211> LENGTH: 165
 363 <212> TYPE: PRT
 364 <213> ORGANISM: Mus musculus
 366 <400> SEQUENCE: 7
 368 Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser Leu Leu
 369 1 5 10 15
 372 Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe Pro Ala
 373 20 25 30
 376 Asp Gly Asp His Ser Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
 377 35 40 45
 380 Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
 381 50 55 60
 384 Val Asp Leu Met Ser Tyr Leu Arg His Val Gln Trp Leu Arg Arg Ala
 385 65 70 75 80
 388 Gly Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala Leu Gln
 389 85 90 95
 392 Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
 393 100 105 110
 396 Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Val Ile Pro Leu Gly
 397 115 120 125
 400 Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala Ile Leu
 401 130 135 140
 404 Gly Gly Leu His Leu Thr Leu Asp Trp Ala Val Arg Gly Leu Leu Leu
 405 145 150 155 160
 408 Leu Lys Thr Arg Leu
 409 165
 413 <210> SEQ ID NO: 8
 414 <211> LENGTH: 165
 415 <212> TYPE: PRT
 416 <213> ORGANISM: Rattus norvegicus
 418 <400> SEQUENCE: 8
 420 Pro Arg Ala Asp Leu Asp Ser Ala Val Leu Leu Thr Arg Ser Leu Leu
 421 1 5 10 15
 424 Ala Asp Thr Arg Gln Leu Ala Ala Gln Met Arg Asp Lys Phe Pro Ala
 425 20 25 30
 428 Asp Gly Asp His Asn Leu Asp Ser Leu Pro Thr Leu Ala Met Ser Ala
 429 35 40 45
 432 Gly Thr Leu Gly Ser Leu Gln Leu Pro Gly Val Leu Thr Arg Leu Arg
 433 50 55 60
 436 Val Asp Leu Met Ser Tyr Phe Arg His Val Gln Trp Leu Arg Arg Ala
 437 65 70 75 80
 440 Ala Gly Pro Ser Leu Lys Thr Leu Glu Pro Glu Leu Gly Ala Leu Gln
 441 85 90 95
 444 Ala Arg Leu Glu Arg Leu Leu Arg Arg Leu Gln Leu Leu Met Ser Arg
 445 100 105 110
 449 Leu Ala Leu Pro Gln Ala Ala Pro Asp Gln Pro Ala Val Pro Leu Gly
 450 115 120 125
 453 Pro Pro Ala Ser Ala Trp Gly Ser Ile Arg Ala Ala His Ala Ile Leu
 454 130 135 140

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/12/2006
PATENT APPLICATION: US/10/565,626 TIME: 10:06:57

Input Set : A:\seq list.txt
Output Set: N:\CRF4\07122006\J565626.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 148,152
Seq#:14; Xaa Pos. 161,165
Seq#:19; Xaa Pos. 182,186
Seq#:24; Xaa Pos. 148,152
Seq#:29; Xaa Pos. 161,165
Seq#:34; Xaa Pos. 182,186
Seq#:39; Xaa Pos. 148,152
Seq#:44; Xaa Pos. 161,165
Seq#:49; Xaa Pos. 182,186
Seq#:54; Xaa Pos. 148,152
Seq#:59; Xaa Pos. 161,165
Seq#:64; Xaa Pos. 182,186
Seq#:70; N Pos. 442,443,444,454,455,456
Seq#:71; N Pos. 481,482,483,493,494,495
Seq#:72; N Pos. 544,545,546,556,557,558
Seq#:74; N Pos. 5892,5893,5894,5904,5905,5906
Seq#:75; N Pos. 607,608,609,619,620,621
Seq#:76; N Pos. 4311,4312,4313,4323,4324,4325

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33
Seq#: 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57
Seq#: 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 70, 71, 72, 73, 74, 75, 76, 79, 80, 81, 82, 83, 84
Seq#: 85, 86, 87, 88, 89, 90

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/565,626

DATE: 07/12/2006
TIME: 10:06:57

Input Set : A:\seq list.txt
Output Set: N:\CRF4\07122006\J565626.raw

L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:144
L:809 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:160
L:1115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:176
L:1430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:144
L:1716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:160
L:2022 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:176
L:2336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:144
L:2622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:160
L:2927 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:176
L:3240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:144
L:3526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:160
L:3826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:176
L:4145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:420
L:4188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:480
L:4233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:540
L:4797 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:5880
L:4973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:600
L:5196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:4260
M:341 Repeated in SeqNo=76